

**Abstract of the Disclosure**

A brushless DC motor comprises a pole through which an end of a magnetically conductive tube that is fixed to a tube on a casing extends. A bobbin includes a central hole through which the magnetically conductive tube extends. The bobbin has a winding wound therearound, the winding having terminals electrically connected to contacts of a drive device. A central shaft of a rotor is rotatably mounted in the magnetically conductive tube. A round top of the rotor has a magnetic disc securely attached thereto. A metal disc is mounted between the magnet disc and the round top of the rotor. The magnet disc and the pole edges of the pole and the pole edges of the magnetically conductive tube are repulsive to each other, and the drive device varies polarities of the pole edges to thereby drive the rotor.